CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022

Date:03.06.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample : :Cement (ACC 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : May - 2021

Date of Testing : 01.06.2021 to 03.06.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644, Email: civilqualityconsultants@gmail.com

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date : 03.06.2021

Job No.: CQCE/BBMP/RS/03/2021-2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of Work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Date of Testing : 03.06.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	122	12.20	20.30	79.7	75-100
1.18	173	17.30	37.60	62.4	55-90
600 Micron	261	26.10	63.70	36.3	35-59
300 Micron	198	19.80	83.50	16.5	8-30
150 Micron	106	10.60	94.10	5.9	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date : 03.06.2021

Job No.: CQCE/BBMP/RS/03/2021-2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Date of Testing : 03.06.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	203	1.35	1.35	98.65	95-100
20	8209	54.73	56.08	43.92	30-70
10	3262	21.75	77.83	22.17	10-35
4.75	2598	17.32	95.15	4.85	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 24.06.2021

Job No CQCE/BBMP/RS/03/2021-2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : : Executive Engineer, Yelahanka Division,BBMP, Bangalore.

Contractor : : Sri. R Shivaram, Contractor, Bangalore.

Name of Work : : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

No.of Sample Tested : 03

Date of Testing : 24.06.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.374	2322.89	1.64	0.961	33.50	17.06	18.43	17.71	22.14
2	50.00	84.00	0.389	2358.52	1.68	0.965	32.40	16.50	17.82	17.21	21.51
3	50.00	86.00	0.402	2380.66	1.72	0.970	34.70	17.67	19.09	18.51	23.14

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date: 24.06.2021

Job No CQCE/BBMP/RS/03/2021-2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	: **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Contractor	:	: **Sri. R Shivaram,** Contractor, Bangalore.
Name of Work	:	: Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	24.06.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	116.00	1.702	2306.36	1.29	0.923	133.50	20.98	22.66	20.92	26.15
2	90.00	119.00	1.783	2355.21	1.32	0.927	135.50	21.30	23.00	21.32	26.65
3	90.00	123.00	1.871	2391.08	1.37	0.932	137.30	21.58	23.31	21.71	27.14

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022 Date: 16.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2021	16.06.2021	8.006	363.3	16.15
2	09.06.2021	16.06.2021	8.098	359.9	16.00
3	09.06.2021	16.06.2021	8.020	370.1	16.45

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022 Date: 16.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2021	16.06.2021	8.005	364.4	16.20
2	09.06.2021	16.06.2021	8.145	350.2	15.56
3	09.06.2021	16.06.2021	8.099	358.1	15.92

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 19.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2021	19.06.2021	8.200	369.9	16.44
2	12.06.2021	19.06.2021	8.144	385.5	17.13
3	12.06.2021	19.06.2021	8.036	372.1	16.54

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ಬ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022 Date: 07.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2021	07.07.2021	8.002	512.3	22.77
2	09.06.2021	07.07.2021	8.039	524.9	23.33
3	09.06.2021	07.07.2021	8.048	506.7	22.52

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022 Date: 07.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2021	07.07.2021	8.129	528.6	23.49
2	09.06.2021	07.07.2021	8.186	516.9	22.97
3	09.06.2021	07.07.2021	8.157	504.7	22.43

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022 Date: 10.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency : **Sri. R Shivaram,** Contractor, Bangalore.
Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2021	10.07.2021	8.185	510.6	22.69
2	12.06.2021	10.07.2021	8.176	522.8	23.24
3	12.06.2021	10.07.2021	8.198	536.9	23.86

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 19.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2021	19.06.2021	8.180	388.5	17.27
2	12.06.2021	19.06.2021	8.094	404.7	17.99
3	12.06.2021	19.06.2021	8.147	370.7	16.48

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 19.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2021	19.06.2021	8.057	347.6	15.45
2	12.06.2021	19.06.2021	8.043	362.5	16.11
3	12.06.2021	19.06.2021	8.026	381.9	16.97

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Job No.: CQCE/BBMP/RS/03/2021-2022

Date: 10.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** Yelahanka Division,BBMP, Bangalore.
Agency	**: Sri. R Shivaram,** Contractor, Bangalore.
Name of the work	: Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2021	10.07.2021	8.085	530.2	23.56
2	12.06.2021	10.07.2021	8.099	518.6	23.05
3	12.06.2021	10.07.2021	8.063	505.2	22.45

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/RS/03/2021-2022 Date: 10.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division,BBMP, Bangalore.

Agency : **Sri. R Shivaram,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Deo Marvel Layout and Surrounding Area In Ward No.03, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2021	10.07.2021	8.112	489.8	21.77
2	12.06.2021	10.07.2021	8.106	500.6	22.25
3	12.06.2021	10.07.2021	8.093	524.5	23.31

Note:

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